

# ESF 3

## *Public Works and Engineering*

LEAD AGENCY: *Department of Public Works and Environmental Services*

<b>Coordinating Agency</b>	<b>Department of Public Works and Environmental Services</b>
<b>Cooperating Agencies</b>	Fire and Rescue Department
	Health Department
	Police Department
	Department of Tax Administration
	Fairfax County Public Schools
	Facilities Management Department
	Office of the County Attorney
	Park Authority
	Fairfax County Water Authority
	Department of Planning and Zoning
	Fairfax County Department of Transportation
	Virginia Department of Transportation

### *I. MISSION STATEMENT*

Provide essential public works and county-run utility services, including storm-water and sanitary and solid waste, during and following an emergency or disaster. Provide debris clearance and removal as well as damage assessment operations for private residential and commercial structures.

### *II. SCOPE AND POLICIES*

- All emergency response and recovery operations conducted under ESF 3 will be in accordance with the National Incident Management System (NIMS).
- ESF 3 will collect, analyze, and distribute information on the impact and status of critical infrastructure and systems, including wastewater collection, sewer treatment, and vital DPWES facilities.

- ESF 3 will support the damage assessment process by assessing damage to storm-water, wastewater, and sanitary and solid waste systems and facilities.
- ESF 3 will evaluate the extent of damage to commercial and residential structures.
- Damage assessment information is provided to the EOC through the Damage Assessment Unit representative.
- The coordinating agency will actively engage the ESF cooperating agencies in planning, training, and exercises to ensure an effective operation upon activation.
- ESF 3 encompasses the full range of public works and engineering services that may be required to support emergency response operations and provide critical services to residents impacted by the incident.
- ESF 3 will maintain documentation for reimbursement in accordance with the Financial Annex to this Plan.

### ***III. CONCEPT OF OPERATIONS***

1. In conjunction with information received from the EOC, the coordinating agency monitors incidents and threats to the county and maintains situational awareness on the county facilities and critical infrastructure.
2. As an incident or threat escalates, the coordinating agency will issue notifications to cooperating agencies and agency emergency personnel in accordance with established protocols and checklists.
3. Upon activation of the EOC, the coordinating agency will provide representation to facilitate action on requirements and issues. All requests for debris removal will be submitted to the EOC for coordination, validation, and/or action in accordance with this Emergency Support Function.
4. ESF 3 will be responsible for deploying Damage Assessment Teams for assigned damage assessment responsibilities and submitting reports to the EOC.

5. Damage to school facilities, parks, and water authority facilities will be assessed by those respective agencies, and assessment information submitted to the EOC. The coordinating agency will provide support for this function if required.
6. The Director of the Department of Public Works and Environmental Services will designate a Debris Removal Coordinator who will be responsible for deploying all county and contracted private debris removal resources in coordination with the Virginia Department of Transportation and affected public utilities efforts in order to maximize debris removal.
7. Operations will continue at the EOC until the local emergency declaration is terminated or as otherwise directed.

#### ***IV. AGENCY ROLES AND RESPONSIBILITIES***

##### ***Coordinating Agency – Department of Public Works and Environmental Services***

<b>Phase</b>	<b>Roles and Responsibilities</b>
<b>Preparedness</b>	<ul style="list-style-type: none"> <li>• Develop supporting plans and procedures.</li> <li>• Conduct training and exercises.</li> <li>• Develop and maintain inventory of internal assets.</li> <li>• Develop and maintain notification rosters.</li> <li>• Maintain plans and procedures for damage assessment, debris removal and flood response.</li> <li>• Manage resolution of ESF 3 after-action issues.</li> <li>• Conduct planning in coordination with cooperating agencies.</li> </ul>
<b>Response</b>	<ul style="list-style-type: none"> <li>• Implement debris removal plan and coordinate debris removal operations.</li> <li>• Ensure normal wastewater and refuse collection services.</li> <li>• Coordinate emergency structural repairs to critical DPWES facilities.</li> <li>• Conduct damage assessment and mitigation on county drainage and impoundment systems.</li> <li>• Monitor county-owned dams during storm events.</li> <li>• Manage snow and ice removal from county facilities.</li> <li>• Conduct structural inspections/evaluations of privately-owned residential and commercial buildings and structures, as requested.</li> <li>• Assist with mutual aid requests for engineering, construction resources and debris removal.</li> </ul>

	<ul style="list-style-type: none"> <li>• Provide available heavy construction equipment, trucks, operators, and construction supplies.</li> </ul>
Recovery	<ul style="list-style-type: none"> <li>• Implement (or continue) debris removal plan and coordinate debris removal operations.</li> <li>• As necessary, expedite the building permit, plan review and inspection process for repair or demolition of damaged structures.</li> <li>• Provide substantial damage assessment reports, and certifications as required by FEMA.</li> <li>• Conduct after-action review.</li> </ul>
Mitigation	<ul style="list-style-type: none"> <li>• Provide input to the Northern Virginia Regional Hazard Mitigation Plan.</li> <li>• Review plans for compliance with FEMA flood plain standards.</li> <li>• Administer and enforce existing codes and ordinances, as applicable.</li> <li>• Make recommendations for mitigating codes or ordinances where applicable.</li> <li>• Ensure building code enforcement, as appropriate.</li> </ul>

*Cooperating Agency – Fire and Rescue Department*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"> <li>• Participate in planning, training, and exercises.</li> <li>• Maintain agency notification roster.</li> <li>• Maintain inventory of agency resources.</li> <li>• Assist in resolving ESF 3 after-action issues.</li> <li>• Develop supporting plans and procedures.</li> </ul>
Response	<ul style="list-style-type: none"> <li>• Provide support to damage assessment by conducting windshield surveys.</li> <li>• Conduct initial structural inspections/evaluations of privately-owned residential and commercial buildings and structures, where safety of entry is questionable for DPWES staff.</li> <li>• Provide oversight for hazardous and toxic waste removal and disposal.</li> </ul>
Recovery	<ul style="list-style-type: none"> <li>• Provide oversight for debris removal burn sites if applicable.</li> <li>• Participate in after-action review.</li> </ul>
Mitigation	<ul style="list-style-type: none"> <li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li> </ul>

*Cooperating Agency – Health Department*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures</li></ul>
Response	<ul style="list-style-type: none"><li>• Support damage assessment of structures by supplying additional manpower and expertise on health hazards in the affected area..</li></ul>
Recovery	<ul style="list-style-type: none"><li>• Provide technical assistance for debris removal.</li><li>• Participate in after-action review.</li></ul>
Mitigation	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents</li></ul>

*Cooperating Agency – Police Department*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
Response	<ul style="list-style-type: none"><li>• Provide traffic management in support of ESF 3 operations.</li><li>• Provide site access control and security.</li><li>• Assist Land Development Services (LDS), if required, in entry to and/or condemnation of premises.</li></ul>
Recovery	<ul style="list-style-type: none"><li>• Participate in after-action review.</li></ul>
Mitigation	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li></ul>

*Cooperating Agency – Department of Tax Administration*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Develop internal agency plans and procedures.</li><li>• Participate in training and exercises.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li></ul>
Response	<ul style="list-style-type: none"><li>• Support damage assessment by providing information on housing values.</li></ul>
Recovery	<ul style="list-style-type: none"><li>• Support damage assessment by providing information on housing values.</li></ul>
Mitigation	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li></ul>

*Cooperating Agency – Fairfax County Public Schools*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
Response	<ul style="list-style-type: none"><li>• Support damage assessment by assessing damage to schools and other agency facilities, as appropriate.</li><li>• Provide support for debris removal operations.</li></ul>
Recovery	<ul style="list-style-type: none"><li>• Participate in after-action review.</li></ul>
Mitigation	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents</li></ul>

*Cooperating Agency – Facilities Management Department*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
Response	<ul style="list-style-type: none"><li>• Support damage assessment by assessing damage to county owned buildings and facilities.</li><li>• Coordinate emergency repairs to county facilities for which they have responsibility.</li><li>• As required, lease facilities to support operations.</li></ul>

Recovery	<ul style="list-style-type: none"> <li>• Participate in after-action review.</li> </ul>
Mitigation	<ul style="list-style-type: none"> <li>• Provide input for the Northern Virginia Regional Hazard Mitigation Plan.</li> <li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li> </ul>

*Cooperating Agency – Office of the County Attorney*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"> <li>• Participate in planning, training, and exercises.</li> <li>• Maintain agency notification roster.</li> <li>• Assist in resolving ESF 3 after-action issues.</li> <li>• Develop supporting plans and procedures.</li> </ul>
Response	<ul style="list-style-type: none"> <li>• Prepare waivers and legal clearances for debris removal.</li> </ul>
Recovery	<ul style="list-style-type: none"> <li>• Prepare waivers and legal clearances for debris removal.</li> <li>• Participate in after-action review.</li> </ul>
Mitigation	<ul style="list-style-type: none"> <li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li> </ul>

*Cooperating Agency – Park Authority*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"> <li>• Participate in planning, training, and exercises.</li> <li>• Maintain agency notification roster.</li> <li>• Maintain inventory of agency resources.</li> <li>• Assist in resolving ESF 3 after-action issues.</li> <li>• Train agency staff for emergency assignments.</li> <li>• Develop supporting plans and procedures.</li> </ul>
Response	<ul style="list-style-type: none"> <li>• Assist damage assessment by assessing damages to county parks and facilities.</li> <li>• Assist with debris and snow removal operations by providing temporary storage sites.</li> <li>• Assist with monitoring of park owned dams and lakes.</li> </ul>
Recovery	<ul style="list-style-type: none"> <li>• Assist with debris removal.</li> <li>• Provide on-site support center for recovery operations, if appropriate and if a suitable facility is available.</li> <li>• Participate in after-action review</li> </ul>
Mitigation	<ul style="list-style-type: none"> <li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li> </ul>

*Cooperating Agency – Fairfax County Water Authority*

<b>Phase</b>	<b>Roles and Responsibilities</b>
<b>Preparedness</b>	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• Conduct damage assessment of FCWA water supply and control facilities.</li><li>• Manage restoration of FCWA water distribution systems.</li><li>• Assist with debris removal, as appropriate.</li><li>• Assist with emergency water supply and distribution.</li></ul>
<b>Recovery</b>	<ul style="list-style-type: none"><li>• Assist with debris removal.</li><li>• Restore FCWA water supply and distribution systems.</li><li>• Participate in after-action review.</li></ul>
<b>Mitigation</b>	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li></ul>

*Cooperating Agency – Department of Planning and Zoning*

<b>Phase</b>	<b>Roles and Responsibilities</b>
<b>Preparedness</b>	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• Assist with damage assessment, as requested.</li></ul>
<b>Recovery</b>	<ul style="list-style-type: none"><li>• Expedite building permit issuance process and the review and approval of site-related construction plans submitted for demolition, rebuilding, or restoration of residential and commercial buildings.</li><li>• Provide technical assistance in documentation of damages.</li><li>• Participate in after-action review.</li></ul>
<b>Mitigation</b>	<ul style="list-style-type: none"><li>• Provide input to the Northern Virginia Regional Hazard Mitigation Plan.</li><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li></ul>



*Cooperating Agency –Fairfax Department of Transportation*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Assist in resolving ESF 3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
Response	<ul style="list-style-type: none"><li>• Assist with damages assessments and repair/restoration of highway infrastructures.</li><li>• Assist with emergency debris removal from public roadways, as appropriate.</li><li>• Provide engineering support, as appropriate.</li></ul>
Recovery	<ul style="list-style-type: none"><li>• Provide engineering support, as appropriate.</li><li>• Assist with repair/restoration of critical highway infrastructures, as appropriate.</li><li>• Participate in after-action review.</li></ul>
Mitigation	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents.</li></ul>

*Cooperating Agency – Virginia Department of Transportation*

Phase	Roles and Responsibilities
Preparedness	<ul style="list-style-type: none"><li>• Participate in planning, training, and exercises.</li><li>• Maintain agency notification roster.</li><li>• Maintain inventory of agency resources.</li><li>• Assist in resolving ESF-3 after-action issues.</li><li>• Train agency staff for emergency assignments.</li><li>• Develop supporting plans and procedures.</li></ul>
Response	<ul style="list-style-type: none"><li>• Assess damages and repair/restore the highway infrastructures.</li><li>• Manage emergency debris removal form public roadways.</li><li>• Provide for traffic management.</li></ul>
Recovery	<ul style="list-style-type: none"><li>• Manage restoration of the highway infrastructure.</li><li>• Participate in after-action review</li><li>• Provide expedited permitting for repair work to be performed in right of way.</li></ul>
Mitigation	<ul style="list-style-type: none"><li>• As appropriate, identify potential opportunities for mitigating the impacts of future incidents</li></ul>

## ***V. SUPPORTING PLANS AND PROCEDURES***

1. Land Development Services Emergency Operations Plan.
2. Debris Management Plan.
3. Department of Public Works and Environmental Services Emergency Resources and Roles.
4. Fire and Rescue Department Disaster Assessment Windshield Survey April 2008